BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of work: Estimate for Improvements to Roads & Drains at HMT 1st, 2nd & 3rd Block in ward No. 09 Vidyaranyapura sub Division.

			Estimate Cost Rs.						3000000.00
Sl No	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2015-16**	Cum							
	For Drain Desilting								
	12th Cross Durga Temple Road		2	205.00	0.45	0.40	73.80		
	2nd Main Road Somanna Garden		2	140.00	0.45	0.40	50.40		
	Cross Road		2	70.00	0.45	0.40	25.20		
	Berm cutting								
	12th Cross Durga Temple Road		2	205.00	1.00	0.25	102.50		
	2nd Main Road Somanna Garden		2	140.00	1.00	0.25	70.00		
	Cross Road		2	70.00	1.00	0.25	35.00		
	Culvert		1	11.00	2.00	1.20	26.40		
							383.30	83.16	**31875.00**
	Basic Rate	77.00							
	Area Weightage @8%	6.16							
	Total	**83.16**							
2	Removing B.S Slab of Drain and stacking **Page No. 25 / Item No. 5.32 / PWD SR 2015-16**	Sqm							
			2	205.00		1.35	553.50		
			2	140.00		1.35	378.00		
			2	70.00		1.35	189.00		
							1120.50	63.72	**71398.00**
	Basic Rate	59.00							
	Area Weightage @ 8%	4.72							
	Total	**63.72**							
3	Refixing stone slabs of drains and pointing in C.M (1:3) **Page No. 25 / Item No. 5.33 / PWD SR 2015-16**	Sqm							
			Qty Vide Item No. 2				**1120.50**	78.84	**88340.00**
	Basic Rate	73.00							
	Area Weightage @ 8%	5.84							
	Total	**78.84**							

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	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12/ Item No. 4.3/ PWD SR 2015-16**	Cum							
	Culvert		1	11.00	1.80	0.15	2.97		
							2.97	5070.60	**15060.00**
	Basic Rate	4695.00							
	Area Weightage @8%	375.60							
	Total	**5070.60**							
5	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 **Page No. 23 / Item No. 5.6 / PWD SR 2015-16**	Cum							
	Culvert		2	11.00	0.60	0.90	11.88		
							11.88	4135.32	**49128.00**
	Basic Rate	3829.00							
	Area Weightage @8%	306.32							
	Total	**4135.32**							
6	KSRB 15.1.2: Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:4, 20 mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. **Page No. 109 / Item No. 15.2 / PWD SR 2015-16**	Sqm							
	Culvert		2	11.00		0.90	19.80		
							19.80	96.12	**1903.00**
	Basic Rate	89.00							
	Area Weightage @8%	7.12							
	Total	**96.12**							
7	KSRB 4-1.6 : Providing and laying in position plain cement concrete of **mix 1:2:4 with cement @ 240 kgs with 20mm** and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1,4.2. **No. 12/ Item No. 4.6 / PWD SR 2015-16**	Cum							
	Coping		2x2	205.00	0.20	0.075	12.30		
	Bottom		2	205.00	0.45	0.10	18.45		

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	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Somanna Garden Cross Road		2x2	70.00	0.20	0.075	4.20		
			2	70.00	0.45	0.10	6.30		
			1	11.00	1.80	0.10	1.98		
							43.23	5490.72	**237364.00**
	Basic Rate	5084.00							
	Area Weightage @ 8%	406.72							
	Total	**5490.72**							
8	KSRB 5-14 : Providing and constructing **precast concrete solid blocks** with compressive strength not les than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, Jamb, closer blocks) with solid concrete blocks of size 40x20x20 cms conforming to I.S: 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. **Page No. 25 / Item No. 5.27 / PWD SR 2015-16**	Sqm							
			2x2	205.00		0.40	328.00		
			2X2	70.00		0.40	112.00		
							440.00	1018.44	**448114.00**
	Basic Rate	943.00							
	Area Weightage @ 8%	75.44							
	Total	**1018.44**							
9	KSRB 4.2.2 : Providing and laying in position **reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal**, coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum with superplastisiser @ 3lts confirming to IS 9103-1999 reaffirmed-2008 machine mixed, concrete laid in layers not exceeding 15cms thick, vibrated for all works in foundation plinth and ground floor level for roof slabs, staircase, lintels, retaining walls, walls (any thickness) including attached plasters, column, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window cills, fillets etc, including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1,4.6, **Page No. 13 / Item No. 4.11 / PWD SR 2015-16**	Cum							
	CC Drain Covering Slab		2	205.00	1.20	0.10	49.20		
			2	70.00	0.90	0.10	12.60		
	Culverts		1	11.00	1.80	0.23	4.55		
							66.35	6198.12	**411270.00**
	Basic Rate	5739.00							
	Area Weightage @ 8%	459.12							
	Total	**6198.12**							

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	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 **TMT Bars FE 500 Page No. 17 / Item No. 4.46.2 / PWD SR 2015-16**	Tonne							
	60 Kg / Cum		0.06	66.35			3.98		
							3.98	69805.80	**277914.00**
	Basic Rate	64635.00							
	Area Weightage @ 8%	5170.80							
	Total	**69805.80**							
11	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface such as walls** at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 **Page No. 15 / Item No. 4.31 / PWD SR 2015-16**	Sqm							
	Drain covering slab		2	205.00	0.80		328.00		
	covering slab sides Sidewall		4	205.00		0.12	98.40		
			2	70.00	0.60		84.00		
			4	70.00		0.12	33.60		
	Culvert		1	11.00	0.60		6.60		
			2	11.00		0.23	5.06		
			2	1.80		0.23	0.83		
	Basic Rate	284.00					**556.49**	306.72	**170686.00**
	Area Weightage @ 8%	22.72							
	Total	**306.72**							
12	Providing and fixing **pre cast solid cement concrete kerb stones** made out of C.C 1:2:4 with top and bottom width 114 and 165mm repectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting, including formwork curing, including, cost of all materials, labour hire charges of machinery, loading unloading, lead and lift, transportation etc, complete. **Page No. 25 / Item No. 5.30 / PWD SR 2015-16**	Nos							
			2	205.00			911		
	Basic Rate	297.00		0.45			**911**	320.76	**292248.00**
	Area Weightage @ 8%	23.76							
	Total	**320.76**							

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	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRB 15.19.1 : Providing and applying ready mix **priming coat over concrete** / masonry / asbestos cement sheet / plastered surfaces including preparing the surface after throughtly cleaning of oil, grease, dirt and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 121 / Item No. 15.80 / PWD SR 2015-16**	Sqm							
	For kerb stones		2	205.00	0.40		164.00		
							164.00	27.00	**4428.00**
	Basic Rate	25.00							
	Area Weightage @ 8%	2.00							
	Total	**27.00**							
14	KSRB 15.20.1 : Providing and applying floor **painting with ready mix two coats** (Excluding priming coat) on new s concrete / masonry / asbestos cement sheet / / plastered surfaces with flat wall paint of approved brand to give even shade after cleaning the surface of all dirt, dust and other foreign matter, and sand papering including cost of materials, labour, complete as per specifications. **Page No. 121 / Item No. 15.83 / PWD SR 2015-16**	Sqm							
			Qty Vide Item No. 11				164.00		
							164.00	51.84	**8502.00**
	Basic Rate	48.00							
	Area Weightage @ 8%	3.84							
	Total	**51.84**							
15	KSRRB 300-47: scarifying kankar/gravel/metal crust upto 150mm thick with pick axes and disposal of stuff within a lead of 100 meters including cost of all labour charges complete as per specifications MORTH chapter 3, **No. 146 / Item No. 19.53 / PWD SR 2015-16**	Sqm							
	2nd Main Somanna Garden		2	140.00	1.50		420.00		
	Cross Road		1	70.00	5.00		350.00		
							770.00	25.92	**19958.00**
	Basic Rate	24.00							
	Area Weightage @ 8%	1.92							
	Total	**25.92**							

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	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	KSRRB M400-17: Providing, laying spreading and compacting graded stones aggregate to **wet mix macadam** specifications including premixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying, in uniform layers with paver in sub base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per MORTH specification NO. 406, **Page No. 157 / Item No. 20.18 / PWD SR 2015-16**	Cum							
	2nd Main Somanna Garden		2	140.00	1.50	0.20	84.00		
	Cross Road		1	70.00	5.00	0.15	52.50		
							136.50	1713.96	**233956.00**
	Basic Rate	1587.00							
	Area Weightage @ 8%	126.96							
	Total	**1713.96**							
17	Providing and applying primer coat with S.S. bitumen emulsion on prepared surface of granular base such as WBM, WMM including cleaning of road surface and spraying primer at the rate of 0.60 Kg / sqm using mechnical means complete as per specifications. MORTH specification NO. 502, **Page No. 160 / Item No. 21.6 / PWD SR 2015-16**	Sqm							
	2nd Main Somanna Garden		1	140.00	5.50		770.00		
	Cross Road		1	70.00	5.00		350.00		
							1120.00	32.40	**36288.00**
	Basic Rate	30.00							
	Area Weightage @ 8%	2.40							
	Total	**32.40**							
18	KSRRB M500-19: Providing and laying **bituminous concrete** using crushed aggregates of specified grading, premixed with bituminous binder and filler, transporting the hot mix to work site, laying with a paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve, the desired compaction as per MORTH specification clauses No. 500.9 complete in all respects complete as pr specifications. **Using 100/120 TPH capacity H.M.P with sensor paver Gr-II (30 mm to 45 mm) with 6 % CRMB 55 Page No. 164 / Item No. 21.23.2 / PWD SR 2015-16**	Cum							
	2nd Main Somanna Garden		1	140.00	5.50	0.040	30.80		
	Cross Road		1	70.00	5.00	0.040	14.00		
							44.80	11843.28	**530579.00**
	Basic Rate	10966.00							
	Area Weightage @ 8%	877.28							
	Total	**11843.28**							

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	Description of item	Unit	No	L	B	D	Qty	Rate	Amount
	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means inlcuding loading and unloading. **From 0.00 to 11.90 Km (PWD SR 2015-16** Rates P No 139)	Cum							
				Qty. Vide Item No. 1			**383.30**	106.34	**40759.00**
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 TX 11.90Km X 2.0/km= 30.46	30.46							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
		98.46							
	Area Weightage @ 8%	7.88							
	Total	**106.34**							
20	Sub Total								**2969770.00**
21	Third Party Inspection Charges @ 1%								**29698.00**
22	Add for unforseen and rounding off	L/S							**532.00**
								Total	**3000000.00**

(Rupees Thirty Lakhs Only)

Certificate:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

14/12

Assistant Engineer
Ward No. 09

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidyaranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division

TECHNICAL SANCTION
Accorded For Rs. 3000000
Head of A/c.....
Div. Ref. No. 21/15-16 Date.....
AE Superintending Engineer (BTP)
Yelahanka Zone
BBMP, Bangalore

Administrative Approval
Accorded For 30.00 lakh Rs
Head of A/C P-1771
CER NO : 91A Dt:. 16.12.15
TA CE (YNK)